

PATENT CLAIMS

Sab B1

1. Process for the production of surface-finished paper or board (Bw), characterized in that an aqueous solution (Lw) of a surface-finishing active ingredient (W) is applied to a hydrophilic paper or board sheet (B),

in which (W) consists of

(W₁) polyethylene glycol with an average molecular weight M_w of > 1500

and optionally at least one further additive which is a further finishing additive and/or a formulation additive,

and the paper or board sheet surface-treated with (Lw) is fed through smoothing rolls and dried.

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2. Process according to Claim 1, characterized in that (W) consists of at least 30 % by weight of (W₁) and any remainder to 100 % by weight of at least one further of the finishing additives (W₂) and (W₃) and/or formulation additives (W₄), in which

(W₂) is at least one dye and/or optical brightener,

(W₃) is at least one wet strength additive

and (W₄) is at least one agent for pH adjustment.

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3. Process according to Claim 1 or 2, characterized in that (W) contains at least one non-finishing formulation additive (F).

A 4

Process according to *one of Claims 1 to 3*, characterized in that (Lw) essentially consists of (W) and water.

A 5

Process according to *one of Claims 1 to 4*, at a line pressure of the smoothing rolls in the range of 8 to 500 KN/m.

A 6

Process according to *one of Claims 1 to 5*, characterized in that the paper or board sheet surface-treated with (Lw) is calendered.

7. Surface finishing agent for paper or board which is a solution (Lw) as defined in Claim 4, wherein (F) is selected from,

(F₁₁) antifoams

and (F₁₂) agents for protecting against the damaging effect of microorganisms,

and with a (W₁)-content in the range of 0.1 to 20 %.

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- A
8. Surface finishing agent according to Claim 7 which is an antiyellowing agent for paper or board.
9. Paper or board (B_w) surface-finished in accordance with any one of Claims 1 to 6. *Claim 1*
10. Paper or board (B_w) according to Claim 9 which is essentially size-free and is simultaneously intaglio printing and offset printing paper or board.
11. Process for the production of graphically processed paper or board by application of at least one graphic ink pattern to a substrate of paper or board, and drying, characterized in that the substrate used for this purpose is surface-finished paper (B_w) or surface-finished board (B_w) according to Claim 8 ~~or 9~~.
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